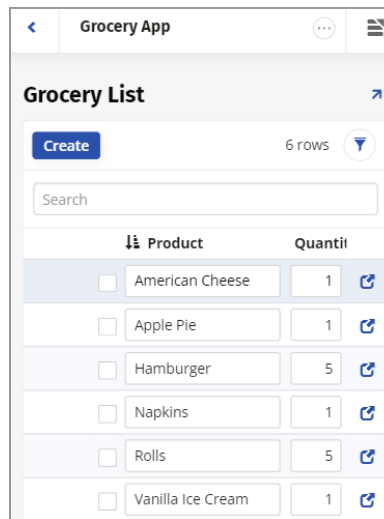


## Introduction

*The estimated time to complete this app is 10 minutes*

This Vinyl Quickstart steps through building a simple Grocery App that allows users to view their app on a smartphone while shopping for groceries, and check items off the list as they go. Building this Grocery App provides a basic overview of working in the Vinyl platform and introduces some of the LCAP capabilities and features. For a deeper dive into Vinyl, sign up for our Introduction to Vinyl course available on Vinyl Academy.



*Grocery App on a smartphone*

## Prerequisites

- Vinyl 3.3
- Modern client web browser
  - Chrome: 84+
  - Firefox: 73+
  - Safari: 13.0.1+
  - Edge: 84

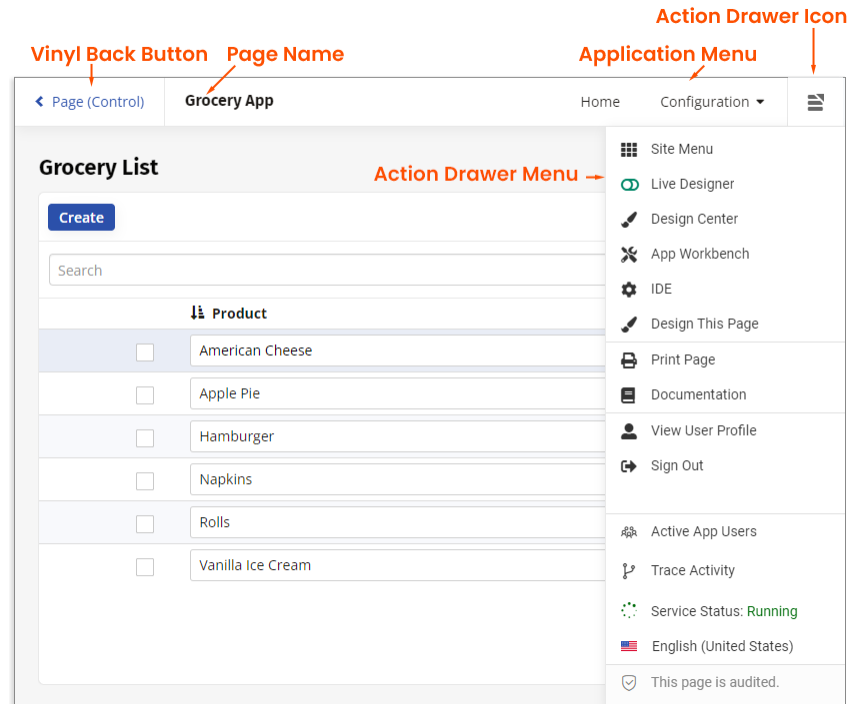
## Vinyl Overview

Vinyl is a low-code application platform (LCAP) designed for large enterprises to solve complex business problems at scale. Vinyl enables full stack and citizen developers alike to create powerful, end-to-end, enterprise-grade applications with sophisticated logic, workflows, security, and integrations. No code required.

The Vinyl platform is designed with simple and intuitive layout and navigation elements. Vinyl applications, and the platform itself, are made up of the following core elements:

- **Panel** - the basic building block of a page. A panel acts as a container that presents information to the user.
- **Page** - a page is made up of at least one panel, and may contain a collection of panels.
- **Control** - represents what the panel displays. Examples include text, a button, image, etc.

Navigating Vinyl is similar for developer and application end users alike, with the exception being a developer user will see more options available. The following diagram illustrates the key ways to navigate Vinyl.



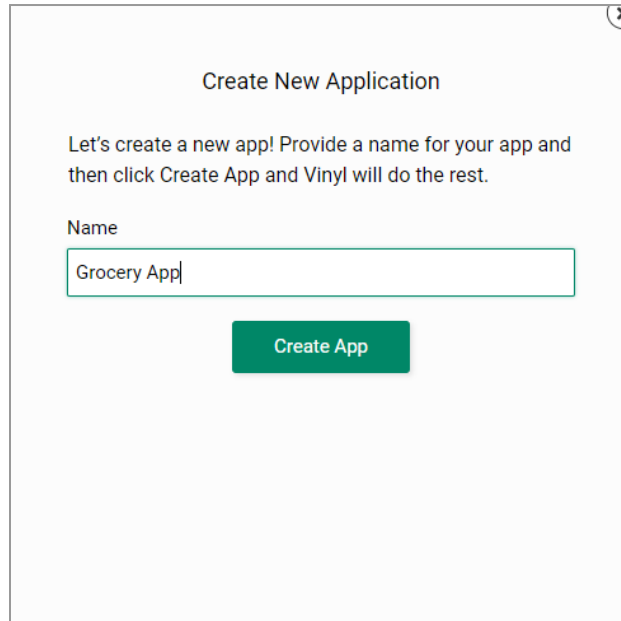
*Vinyl navigation elements from a developer perspective*

Vinyl is platform agnostic. This means it can be run on any modern browser and is fully mobile-compatible. It can be accessed on any operating system and can connect to data sources from virtually every major database service provider. Furthermore, the Vinyl platform is developed with a responsive design. This means the platform will run and be viewable on any size screen or resolution and is automatically optimized for mobile.

For more information see the [Vinyl User Guide](#).

## Create a New Application

To get started we will use the Create New Application wizard, an advanced intelligent wizard that guides you through the process.



*Create New Application wizard*

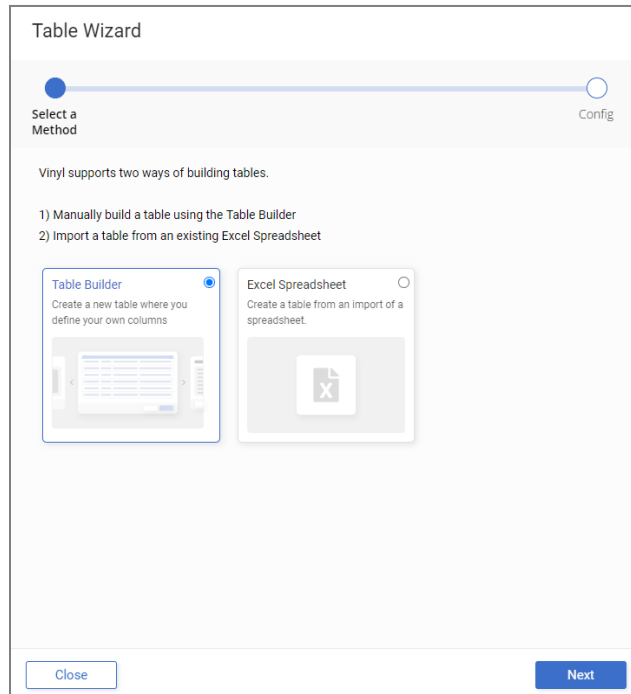
1. Log into your Vinyl environment with your provided credentials
2. Click the **+ App** button from the *Site Menu*
3. Provide a **Name** for the app. For example: *Grocery App*  
**Note:** Name must be unique within a Vinyl environment
4. Click the **Create App** button

Vinyl will now run in the background and create the scaffolding needed for an application. Once finished, you will be taken to the application Home page. Scaffolding created includes:


- Microsoft SQL Server data source
- Parameter table to store variable data
- Home page
- Parameter page
- Parameter (Business Object)
- Navigation menu

## Create a Product Table and Pages

First, we will create a Product table to store our product information. In this section we will use the [Table Wizard](#) and [Page Wizard](#), advanced intelligent wizards designed to simplify processes.

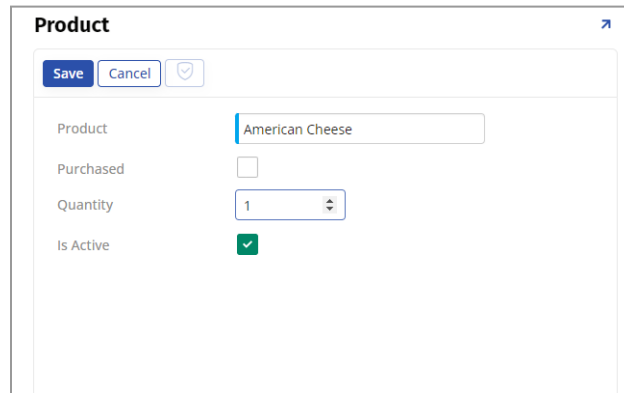


*Table Wizard simplifies table creation*

1. From the app Home page, go to the **Action Drawer**  > **Design Center**
2. Click **+ Table** from *Data Storage Layer*
3. Select the **Table Builder** and click **Next**
4. **Enter a Table Name** and click **Next**. For example, *Product*
5. Click the **Add Title** button and click **Proceed**
6. Click the **Add Column** button
7. Provide a **Name** for the column. For example, *Purchased*
8. Set the **Logical** data type for the column. For example, *Boolean*
9. Click the **checkmark** icon to save
10. Click the **Add Column** button
11. Provide a **Name** for the column. For example, *Quantity*
12. Set the **Logical** data type for the column. For example, *Number*
13. Click the **checkmark** icon to save
14. Click **Next**
15. Review the proposed updates and click **Generate Pages**  
**Note:** Vinyl automatically appends system columns and creates views to help manage your data
16. Select **Home** as the menu the new page will be linked from and click **Next**
17. Select **Grid and Form** as the page types and click **Next**
18. Review the proposed updates and click **Create Pages**

## Create Product Records

After creating the Product table and corresponding pages, Vinyl brings you to the Product form page where you can enter records to store in the Product table and use by the app.



*Product form page example*

1. From the Product page, enter a **Product** name. For example, *American Cheese*
2. Leave the **Purchased** field unchecked
3. Enter a numeric **Quantity** value. For example, *1*
4. Leave **Is Active** checked to indicate the Product is available
5. Click the **Save** button
6. Click the panel **x** to exit out of the Product screen
7. Click the **Create** button to add additional records
8. Follow the steps to create Product records for the following, using Quantity values of your choice:  
Apple Pie, Hamburger, Rolls, Napkins, Vanilla Ice Cream

## Modify the App User Interface

Typical apps contain several tables, business rules, tables, and much more data, but we are simplifying this app build to provide a quick illustration of Vinyl's capabilities. Revisiting the defined app requirement, we want to view the app on a smartphone while shopping for groceries and check items off the list as we go. Here we will make a few updates to the default information to make our app even more user-friendly.

1. From the Products page go to the **Action Drawer > Live Designer**
2. Select the **Purchased** control from the page view
3. Click the **Position & Width** tab in Live Designer
4. Click the **left arrow** icon next to **Change Position** to move the control to the left of Product
5. Click the **Label** tab and select **Hidden** for **Label Visibility** to hide the control Label
6. Click **Save**
7. Select the **Is Active** control from the page view
8. Click the **Control Properties** tab in Live Designer
9. Uncheck the **Active** field and click **Save** to hide this control from the panel view
10. Click to select the Products panel from the page view
11. Change the **Panel Name** to Grocery List (or another meaningful name)
12. Click the **Update Methods** tab in Live Designer
13. Select **Excel** for **Edit Method** to support direct editing of records
14. Select **Inline** for **Insert Method** to append new records to the Products page
15. Select **Last Row** as the **Insert Position** to define where the new record will appear
16. Select **No** for **Delete Supported** to prevent records from being deleted
17. Click **Save** to apply changes
18. Select the **Home** panel from the page view
19. Click the **Edge Case** tab in Live Designer

20. Expand the **General** section, uncheck the **Active** field, and click **Save** to hide this panel
21. Click the **x** to close out the Live Designer

## Set the App Home Page

Vinyl automatically sets an app Home page to the first page a developer adds. To modify this setting, we will go through the App Workbench, a centralized location providing quick shortcuts to everyday tasks required for building and maintaining apps.

1. Navigate to the **Action Drawer > App Workbench**
2. Click the **More** button from *App Settings*
3. Select **Edge Case**
4. Click the **Regions - Controls** tab
5. Set the **Home Page** to the page containing your Grocery App
6. Click the **x** to exit the popup
7. Confirm the update by navigating to **Action Drawer > Site Menu**, double-click to launch your app from the Site Menu

You have finished building your first simple app! At this stage, you can run the Grocery App on a smartphone or any other device. There are many ways this simple app can be augmented. Examples include adding a Department table and mapping Products to Departments, adding a Price column to the Product table and tracking prices over time, and adding a List table to store and reuse lists.

To learn more about Vinyl visit [Vinyl Success Central](#) and take our Introduction to Vinyl course available on Vinyl Academy.

## Resources

- [Vinyl Success Central](#)
- [Vinyl Community Forum](#)
- [Vinyl User Guide](#)
- [Business Rules Cheat Sheet](#)
- [Data Type Cheat Sheet](#)
- [Panel Types Cheat Sheet](#)
- [Vinyl User + Group Management: Local Authentication](#)
- [Security](#)